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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,596	04/30/2001	Robert Miller	IBM/177	3237
75	590 07/01/2004		EXAM	INER
Scott A. Stinebruner			NANO, SARGON N	
Wood, Herron & Evans, L.L.P. 2700 Carew Tower			ART UNIT	PAPER NUMBER
441 Vine Street Cincinnati, OH 45202-2917			2157	
			DATE MAILED: 07/01/2004	<u>ح</u>

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/845,596	MILLER ET AL.				
Office Action Summary	Examiner	Art Unit				
r	Sargon N Nano	2157				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period was really reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>04Ap</u>	1) Responsive to communication(s) filed on <u>04Apr2001</u> .					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
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closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ☐ Claim(s) is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) <u>1-27</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original original contents. The oath or declaration is objected to by the Examiner contents.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

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DETAILED ACTION

This action is responsive to the application filed on April 30, 2001. Claims 1 –
 are pending examination.

2. Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 24 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 24 recites the limitation "method" in line 1. There is insufficient antecedent basis for this limitation.

3. Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of

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paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

4. Claim 1- 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Porter et al., Patent No. 6,636,597.

As to claim 1, Porter teaches a method of accessing a group in a clustered computer system, wherein the clustered computer system includes a plurality of nodes, and wherein the group includes a plurality of members resident respectively on the plurality of nodes, the method comprising:

- (a) receiving an access request on a first node in the plurality of nodes, wherein the access request identifies a cluster-private group name associated with the group; and
- (b) processing the access request on the first node to initiate a group operation on at least a subset of the plurality of nodes that map to the cluster-private group name (see col.4, lines 29 48).

As to claim 2, Porter teaches the method further comprising generating the access request with a user job resident on the first node (see col.4, lines 29 - 48).

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As to claim 3, Porter teaches the method further comprising forwarding the access request to a clustering infrastructure resident in the first node via a call from the user job (see col.4, lines 29 - 48).

As to claim 4, Porter teaches the method further comprising:

- (a) generating the access request with a user job resident on a second node in the plurality of nodes; and
- (b) processing the access request with a proxy job resident on the second node by communicating the access request to the first node (see col.5, lines 40-49).

As to claim 5, Porter claims the method wherein the proxy job is a member of a cluster control group, the method further comprising:

- (a) forwarding the access request from the user job to the proxy job; and
- (b) forwarding the access request from the proxy job to a clustering infrastructure resident in the second node via a call from the proxy job (see col.3, lines 1-8)

As to claim 6, Porter teaches the method further comprising retrieving the cluster-private group name with a user job by accessing a cluster-private data structure (see col.7, lines 47 - 58).

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As to claim 7, porter teaches the method wherein the cluster-private data structure is resident on the same node as the user job (see col.7, lines 47 – 58).

As to claim 8, Porter teaches the method wherein the cluster-private data structure is accessible only from the node upon which the cluster-private data structure is resident (see col.7, lines 47 – 58).

As to claim 9, Porter teaches the method wherein the cluster-private data structure is accessible only by jobs that are resident on the node upon which the cluster-private data structure is resident. (see col.3, lines 52 – 60).

As to claim 10, Porter teaches the method wherein initiating the group operation comprises distributing messages to a plurality of group members resident on the nodes that map to the cluster-private group name. (see col.7, lines 31 – 40).

As to claim 11, Porter teaches the method wherein initiating the group operation further comprises accessing a group address data structure to retrieve a plurality of network addresses associated with the cluster-private group name, wherein distributing messages to the plurality of group members includes sending a message to each of the plurality of network addresses (see col.2, lines 60 – 67 and col.3, lines 1-8).

As to claim 12, Porter teaches the method wherein initiating the group operation is performed by a clustering infrastructure resident on the first node . (see col.4, lines 49 - 59).

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As to claim 13, Porter teaches the method wherein initiating the group operation includes retrieving with the clustering infrastructure plurality of addresses that are mapped to the cluster-private group name in a data structure that is local to the clustering infrastructure (see col.3, lines 33 – 42).

As to claim 14, Porter teaches the method wherein initiating the group operation includes locally resolving on the first node a mapping between the cluster-private group name and a plurality of addresses associated with at least the subset of the plurality of nodes (see col.3, lines 52 – 63).

As to claim 15, Porter teaches an apparatus comprising:

- (a) a memory accessible by a first node among a plurality of nodes in a clustered computer system; and
- (b) a program resident in the memory and executed by the first node, the program configured to access a group that includes a plurality of members resident respectively on the plurality of nodes by receiving an access request that identifies a cluster-private group name associated with the group, and processing the access request to initiate a group operation on at least a subset of the plurality of nodes that map to the cluster-private group name (see col.4, lines 29 48).

As to claim 16, Porter teaches the apparatus further comprising a user job configured to generate the access request (see col.4, lines 29 – 48).

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As to claim 17, Porter teaches the apparatus wherein the program comprises a clustering infrastructure resident on the first node (see col.4, lines 29 – 48).

As to claim 18, Porter teaches the apparatus further comprising a proxy job configured to forward the access request from the user job to the clustering infrastructure (see col.3, lines 1 - 8).

As to claim 19, Porter teaches the apparatus further comprising:

- (a) a cluster-private data structure configured to store the clusterprivate group name; and
- (b) a user job configured to access the cluster-private data structure to retrieve the cluster-private group name and generate the access request therefrom (see col.3, lines 16-22 and col.6, lines 55-65).

As to claim 20 Porter teaches the apparatus wherein the cluster-private data structure is resident on the same node as the user job (see col.7, lines 47 – 58).

As to claim 21 Porter teaches the apparatus wherein the clusterprivate data structure is accessible only from the node upon which the clusterprivate data structure is resident (see col.3, lines 52 – 60). Application/Control Number: 09/845,596 Page 8

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As to claim 22, the apparatus further comprising a group address data structure configured to store a plurality of network addresses associated with the cluster-private group name, wherein the program is configured to initiate the group operation by accessing the group address data structure to retrieve the plurality of network addresses and sending a message to each of the plurality of

As to claim 23, Porter teaches the apparatus wherein the program comprises a clustering infrastructure, and wherein the group address data structure is local to the clustering infrastructure (see col.4, lines 29 – 44).

network addresses (see col.2, lines 60 – 67 and col.3, lines 1-8).

As to claim 24, Porter teaches the method wherein the program is further configured to process the access request by locally resolving on the first node a mapping between the cluster-private group name and a plurality of addresses associated with at least the subset of the plurality of nodes (see col.4, lines 29 – 44).

As to claim 25, porter teaches a clustered computer system, comprising:

- (a) a plurality of nodes coupled to one another over a network;
- (b) a group including a plurality of members resident respectively on the plurality of nodes; and
 - (c) a program resident in a first node among the plurality of nodes and

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configured to access the group by receiving an access request that identifies a cluster-private group name associated with the group, and processing the access request to initiate a group operation on at least a subset of the plurality of nodes that map to the cluster-private group name (see col.4, lines 29 – 48).

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As to claim 26 porter teaches a program product, comprising:

(a) a program resident in the memory and executed by a first node among a plurality of nodes in a clustered computer system, the program configured to access a group that includes a plurality of members resident respectively on the plurality of nodes by receiving an access request that identifies a cluster-private group name associated with the group, and processing the access request to initiate a group operation on at least a subset of the plurality of nodes that map to the cluster-private group name; and

(b) a signal bearing medium bearing the program (see col.4, lines 29 – 48).

27. The program product wherein the signal bearing medium includes at least one of a transmission medium and a recordable medium. (see col.3,).

Conclusion

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Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Sargon N Nano whose telephone number is (703) 305-

4651. The examiner can normally be reached on 8 hour.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ario Etienne can be reached on (703) 308-7562. The fax phone number for

the organization where this application or proceeding is assigned is 703-872-9306.

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Sargon Nano

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